## Amendment to the Specification

The Paragraph beginning at Page 1, lines 8-35, through to Page 3, lines 1-26, is to be deleted and replaced with the Paragraphs as follows:

## Co-pending Applications

Various methods, systems and apparatus relating to the present invention are disclosed in the following co-pending applications filed by the applicant or assignee of the present invention simultaneously with the present application:

10/815621	10/815612	10/815630	10/815637	10/815638	10/815640
10/815642	7097094	7137549	10/815618	7156292	10/815635
10/815647	10/815634	7137566	7131596	7128265	10/815641
10/815645	7175089	10/815617	10/815620	7178719	10/815613
10/815633	10/815619	10/815616	10/815614	10/815636	7128270
10/815609	7150398	7159777	10/815610	7188769	7097106
7070110	10/815629	10/815625	10/815628		

The disclosures of these co-pending applications are incorporated herein by cross-reference.

## **Background of the Invention**

IR absorbing dyes have numerous applications, such as optical recording systems, thermal writing displays, laser filters, infrared photography, medical applications and printing. Typically, it is desirable for the dyes used in these applications to have strong absorption in the near-IR at the emission wavelengths of semiconductor lasers (*e.g.* between about 700 and 2000 nm, preferably between about 700 and 1000 nm). In optical recording technology, for example, gallium aluminium arsenide (GaAlAs) and indium phosphide (InP) diode lasers are widely used as light sources.

Another important application of IR dyes is in inks, such as printing inks. The storage and retrieval of digital information in printed form is particularly important. A familiar example of this technology is the use of printed, scannable bar codes. Bar codes are typically printed onto tags or labels associated with a particular product and contain information about the product, such as its identity, price *etc*. Bar codes are usually printed in lines of visible black ink, and detected using visible light from a scanner. The scanner typically comprises an LED or laser (*e.g.* a HeNe laser, which emits light at 633 nm) light source and a photocell for detecting reflected light. Black dyes suitable for use in barcode inks are described in, for example, WO03/074613.

However, in other applications of this technology (*e.g.* security tagging) it is desirable to have a barcode, or other intelligible marking, printed with an ink that is invisible to the unaided eye, but which can be detected under UV or IR light.

An especially important application of detectable invisible ink is in automatic identification systems, and especially "netpage" and "Hyperlabel<sup>TM</sup>" systems. Netpage systems are described in the following patent applications, all of which are incorporated herein by reference.

7156289	7178718	10/409845	09/575197	7079712	09/575123
6825945	09/575165	6813039	7190474	6987506	6824044
6980318	6816274	7102772	09/575186	6681045	6678499
6679420	6963845	6976220	6728000	7110126	7173722
6976035	6813558	6766942	6965454	6995859	7088459
6720985	09/609303	6922779	6978019	6847883	7131058
09/721895	09/607843	09/693690	6959298	6973450	7150404
6965882	09/608022	09/575181	09/722174	7175079	7162259
6718061	10/291523	10/291471	7012710	6825956	10/291481
10/291509	10/291825	10/291519	7031010	6972864	6862105
7009738	6989911	6982807	10/291576	6829387	6714678
6644545	6609653	6651879	10/291555	10/291510	10/291592
10/291542	7044363	7004390	6867880	7034953	6987581
10/291556	10/291821	7162269	7162222	10/291822	10/291524
10/291553	6850931	6865570	6847961	10/685523	10/685583
7162442	10/685584	7159784	10/804034	10/793933	7068382
7007851	6957921	6457883	10/743671	7094910	7091344
7122685	7038066	7099019	7062651	6789194	6789191
6644642	6502614	6622999	6669385	6827116	6549935
6987573	6727996	6591884	6439706	6760119	09/575198
7064851	6826547	6290349	6428155	6785016	6831682
6741871	6927871	6980306	6965439	6840606	7036918
6977746	6970264	7068389	7093991	7190491	6982798
6870966	6822639	6474888	6627870	6724374	6788982
09/722141	6788293	6946672	6737591	7091960	09/693514
6792165	7105753	6795593	6980704	6768821	7132612
7041916	6797895	7015901	10/782894	7148644	10/778056
10/778058	10/778060	10/778059	10/778063	10/778062	10/778061
10/778057	7055739	09/575129	6830196	6832717	7182247
7082562	6843420	10/291718	6789731	7057608	6766944
6766945	10/291715	10/291559	10/291660	10/409864	7108192
7111791	10/786631	10/683151	10/683040	10/778090	6957768

Appln No. 10/815624 Amdt. Dated: March 28, 2007

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4

09/575162	09/575172	7170499	7106888	7123239	6982701
6982703	10/291538	6786397	6947027	6975299	7139431
7048178	7118025	6839053	7015900	7010147	7133557
6914593	10/291546	6454482	6808330	6527365	6474773
6550997	7093923	6957923	7131724		

In general, the netpage system relies on the production of, and human interaction with, netpages. These are pages of text, graphics and images printed on ordinary paper, but which work like interactive web pages. Information is encoded on each page using ink which is substantially invisible to the unaided human eye. The ink, however, and thereby the coded data, can be sensed by an optically imaging pen and transmitted to the netpage system.